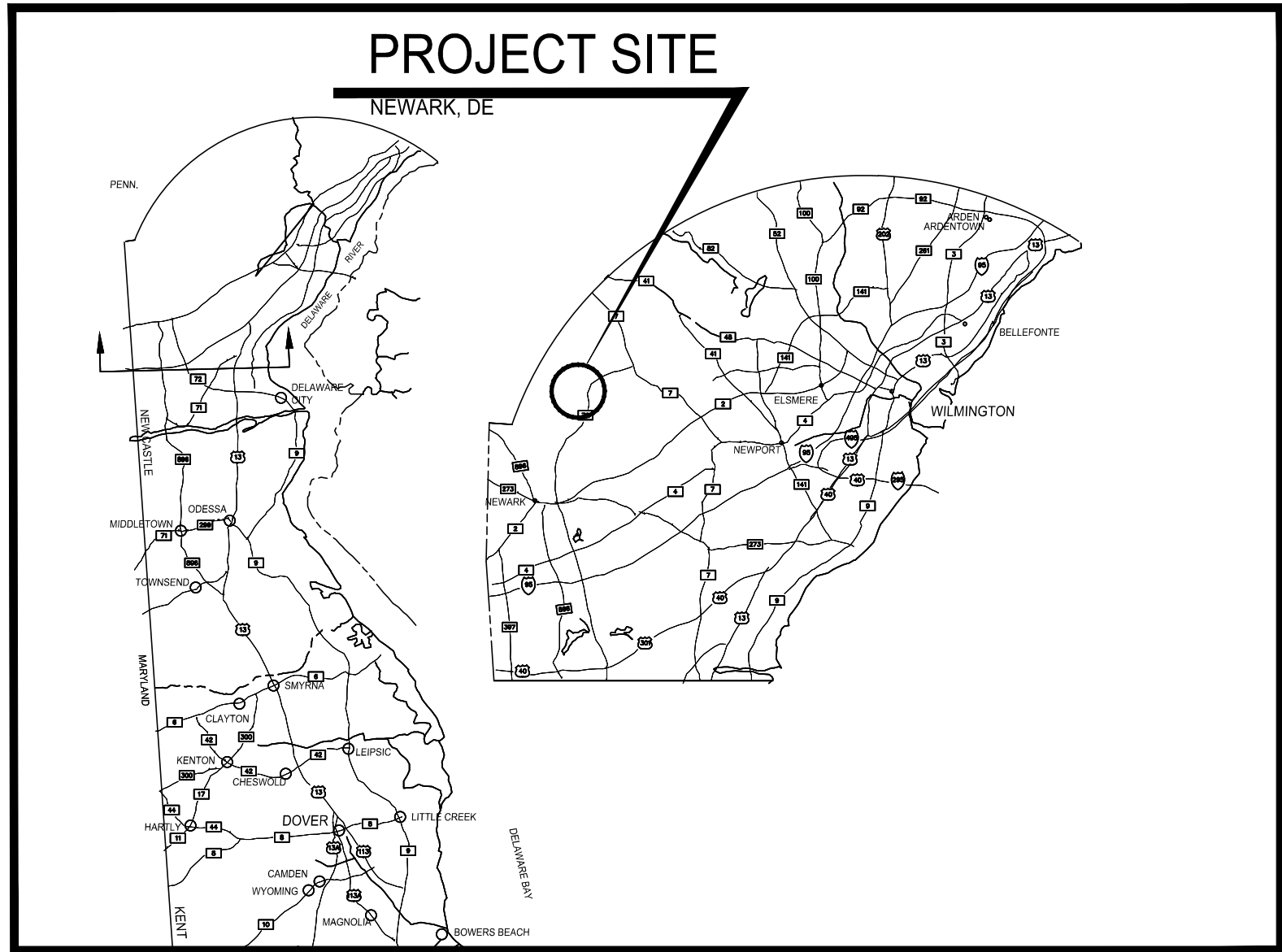


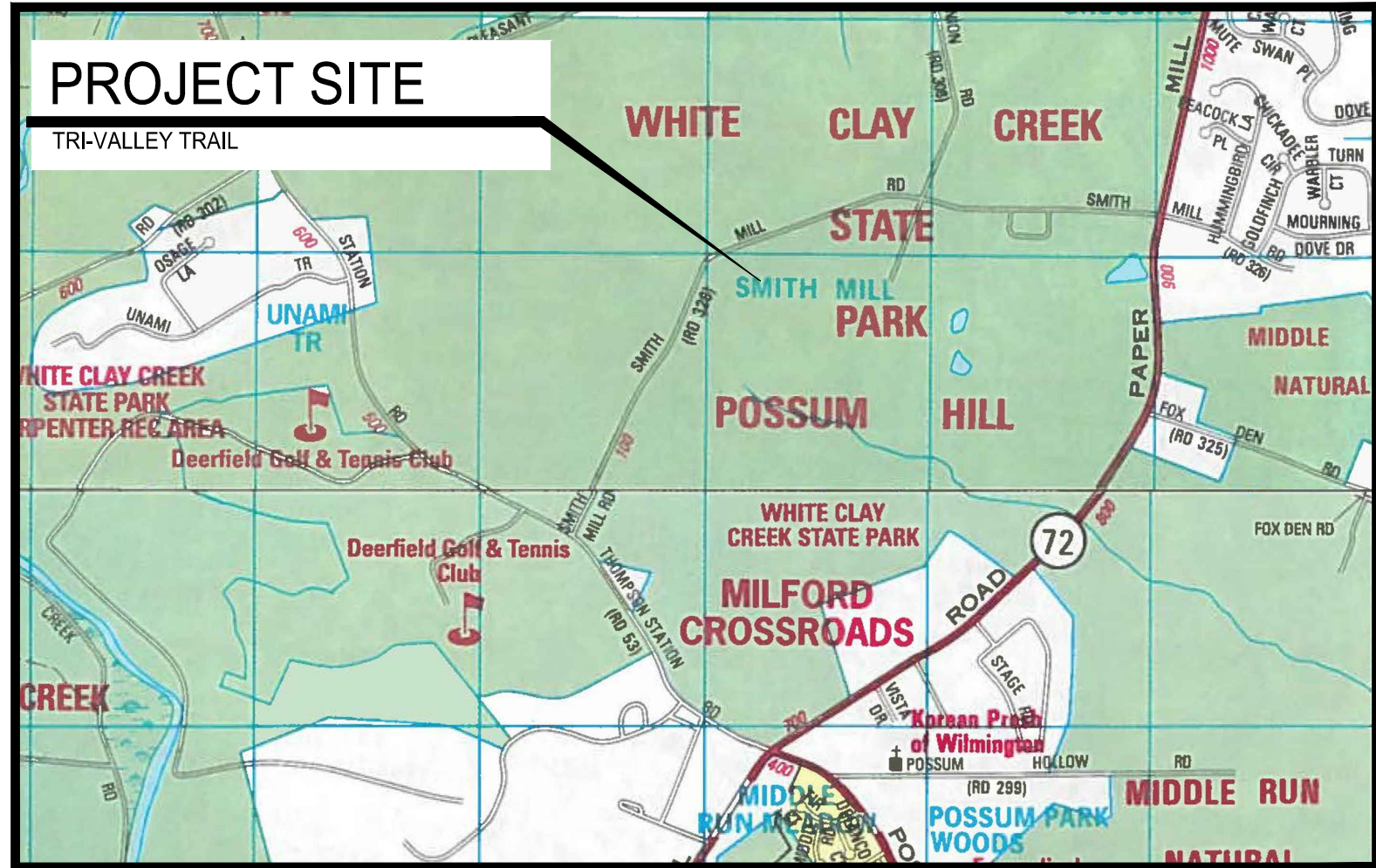
STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF PARKS AND RECREATION



WCCSP TRI-VALLEY TRAIL



LOCATION MAP

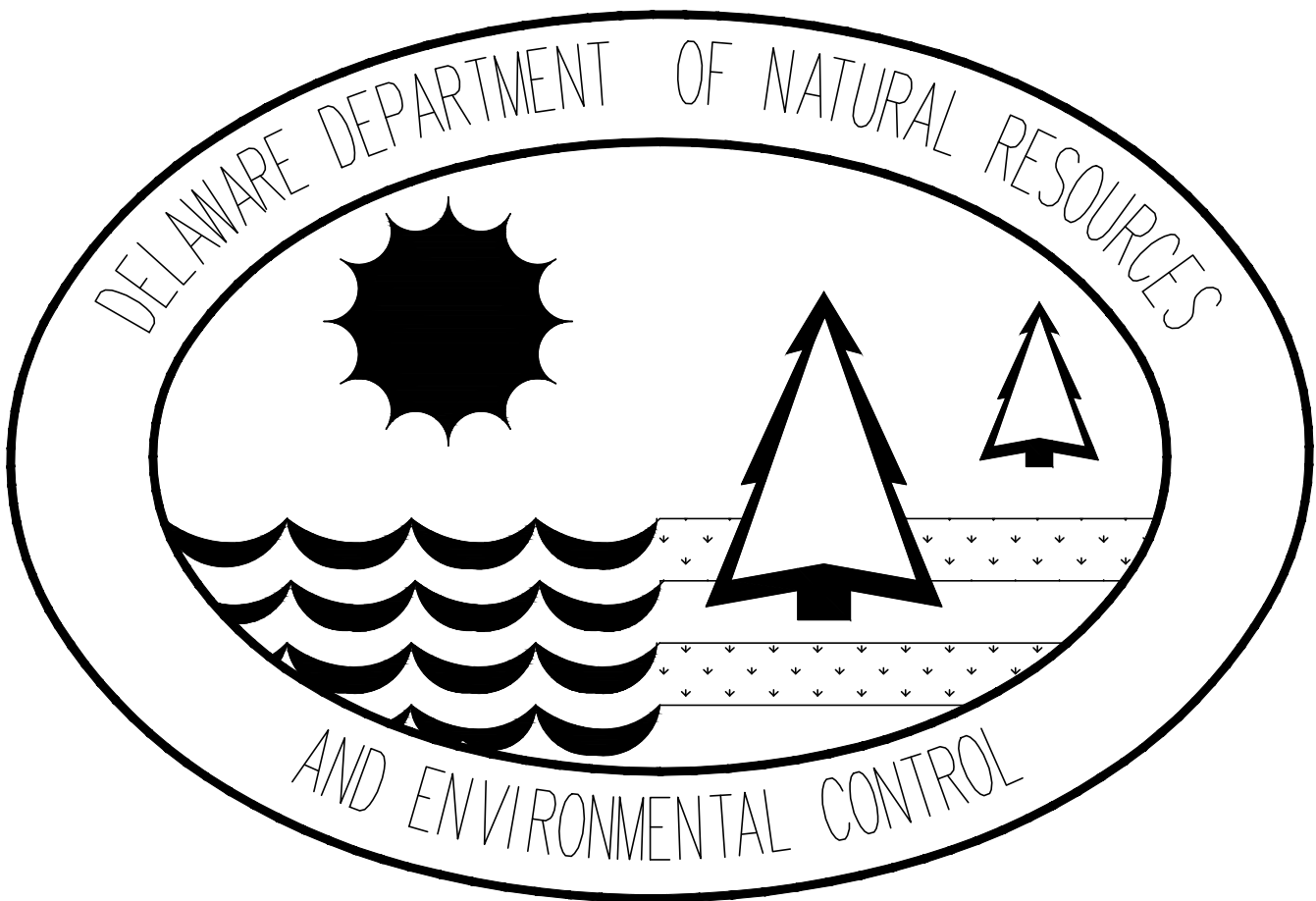


SITE MAP

DNREC STATE CONTRACT NO.: 2016-WCCSP-100

PROJECT NO. WCCSP-7A

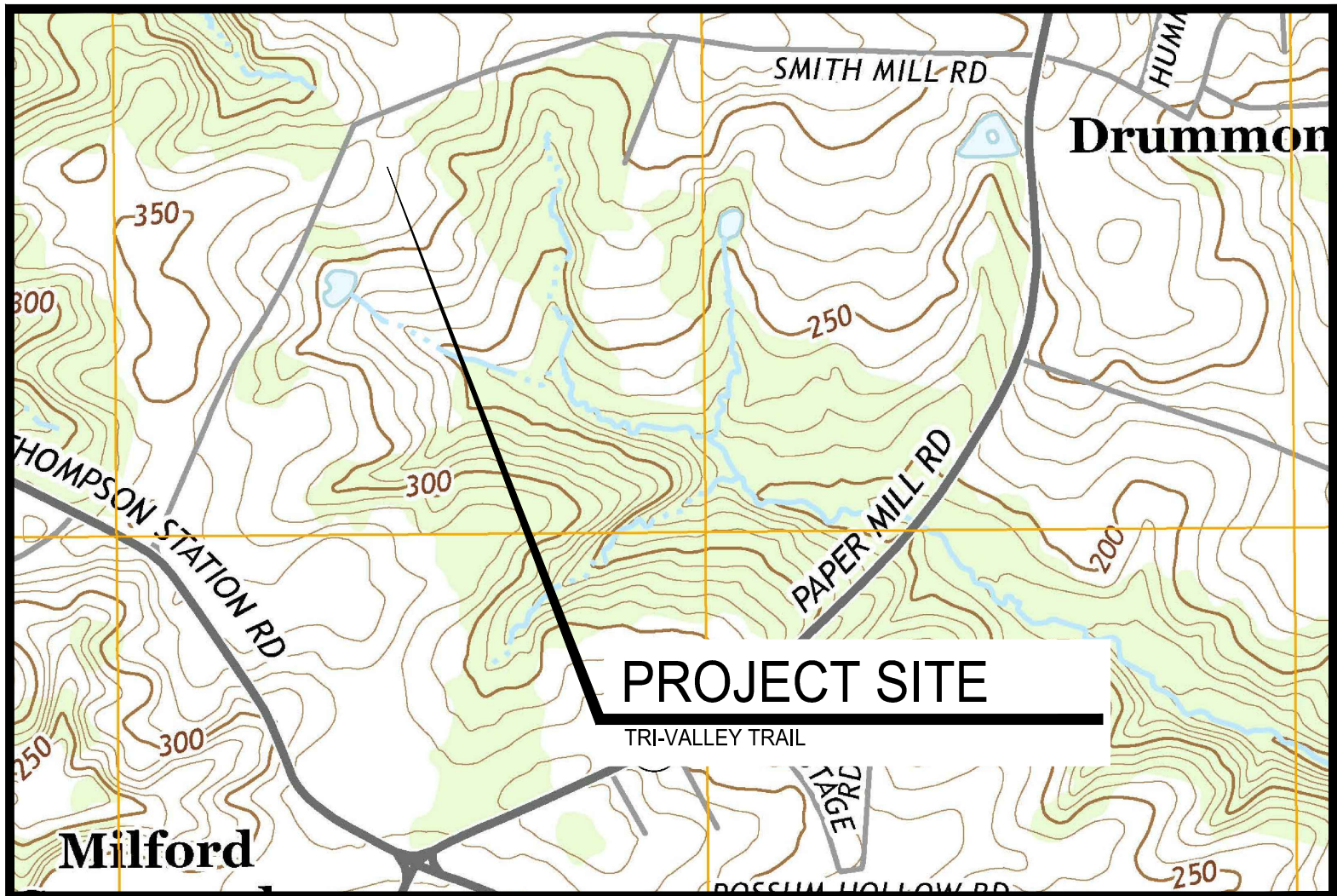
NOVEMBER 14, 2016



CONSTRUCTION SET

INDEX OF SHEETS FOR PROJECT NO. WCCSP-7A

SHEET NO.	SHEET TITLE
C1.0	COVER SHEET
C1.1	PROJECT NOTES & LEGEND
C1.2	BASE BID & ALTERNATES PLAN
C1.3	SITE CONTROL PLAN
C1.4	OVERALL SHEET LAYOUT PLAN
C2.1	DEMOLITION PLAN - PARKING LOT 2
C2.2	DEMOLITION PLAN - PARKING LOT 3
C3.1 - C3.11	SITE ALIGNMENT & SITE GRADING PLAN
C3.12	SITE GRADING PLAN - PARKING LOT 1
C3.13	SITE GRADING PLAN - PARKING LOT 3
C3.14	PROFILES
C4.1 - C4.2	TYPICAL SECTIONS
C5.1 - C5.16	CROSS SECTIONS
C6.1 - C6.4	TYPICAL CONSTRUCTION DETAILS
C7.1	SIGNING AND STRIPING PLAN
C8.1 - C8.6	RESTROOM CONSTRUCTION DETAILS
STORMWATER MANAGEMENT / EROSION & SEDIMENT CONTROL PLANS	
SWM1.0	COVER SHEET
SWM1.1 - SWM1.2	CONSTRUCTION SITE MANAGEMENT PLAN
SWM1.3 - SWM1.5	CONSTRUCTION SITE DETAILS AND NOTES
SWM1.6 - SWM1.7	OVERALL POST CONSTRUCTION MANAGEMENT PLAN
SWM1.8	POST CONSTRUCTION MANAGEMENT PLAN - FILTER STRIP #1
SWM1.9	POST CONSTRUCTION MANAGEMENT PLAN - FILTER STRIP #2
SWM1.10	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN-BIOSWALE#1
SWM1.11	BMP CONTRIBUTING DRAINAGE AREA PLAN
SWM1.12	BMP CONTRIBUTING DRAINAGE AREA DETAILS AND NOTES
SWM1.13	PRE-DEVELOPED SUBAREA LOD PLAN



USGS QUADRANGLE MAP

CIVIL ENGINEER

PREPARED BY:

CENTURY
ENGINEERING

CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY. DOVER, DELAWARE 19901 (302) 734-9188

SIGNATURE

DATE

STAMP

CLIENT

OFFICE OF DESIGN & DEVELOPMENT
DELAWARE DIVISION OF PARKS & RECREATION
89 KINGS HIGHWAY
DOVER, DELAWARE 19901
(302) 739-9231
(302) 739-7026 (FAX)

PROJECT NOTES

1. THE INTENT OF THIS PROJECT IS TO PROVIDE THE FOLLOWING IMPROVEMENTS AT WHITE CLAY CREEK STATE PARK:
- 1.1. CONSTRUCT NEW ASPHALT TRAIL SYSTEM BETWEEN THE INTERSECTION OF THOMPSON STATION ROAD AND OLD POSSUM ROAD, AND THE INTERSECTION OF PAPER MILL ROAD AND SMITH MILL ROAD. CONSTRUCTION WILL INCLUDE NEW ALIGNMENT PAVEMENT, OVERLAY EXISTING PAVEMENT, AND DEMOLITION AND PLACEMENT OF NEW PAVEMENT AS SHOWN ON THE PLANS.
- 1.2. CONSTRUCT ONE (1) NEW PAVED PARKING LOT (PARKING LOT 3).
- 1.3. PAVE ONE (1) EXISTING GRAVEL PARKING LOT (PARKING LOT 1) [ALTERNATE NUMBER 1].
- 1.4. REMOVE ONE (1) EXISTING GRAVEL PARKING LOT AND ALL ASSOCIATED AMENITIES (PARKING LOT 2.)
- 1.5. INSTALL STUB UTILITY CONDUITS FOR ONE (1) PREMANUFACTURED RESTROOM (PARKING LOT 3.)
- 1.6. REMOVAL OF EXISTING EXCESS ASPHALT PAVEMENT AS SHOWN ON THE PLANS.
- 1.7. RELOCATING ONE (1) UTILITY POLE ADJACENT TO PARKING LOT 3, AS SHOWN ON THE PLANS.
- 1.8. MISCELLANEOUS CONSTRUCTION, AS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL BE AWARE THAT ACCESS MUST BE MAINTAINED TO INDIVIDUAL RESIDENCES ALONG SMITH MILL ROAD AND NINE FOOT ROAD. ACCESS SHALL ALSO BE MAINTAINED TO THE "SILENT KNIGHT" MODEL AIRPLANE FIELD LOCATED NEAR STATION 522+40 ON THE NORTH SIDE OF SMITH MILL ROAD. ANY LANE OR ENTRANCE CLOSURES SHALL BE APPROVED WITH DNREC PARKS ONE (1) WEEK PRIOR TO THE CLOSURE.
3. PARCEL AND BOUNDARY LINES TAKEN FROM GIS INFORMATION. NO BOUNDARY SURVEY WAS REQUESTED OR PERFORMED FOR THIS PROJECT.
4. THESE PLANS WERE DEVELOPED FROM CONVENTIONAL FIELD SURVEY PROVIDED. CONTROL POINTS FOR THE SURVEY HAVE BEEN INCLUDED IN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ADDITIONAL PHYSICAL CONTROL AS REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
5. EXISTING UTILITIES SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME THIS PLAN WAS DEVELOPED. COMPLETENESS OR CORRECTNESS OF THE UTILITIES SHOWN THEREOF IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AN UNDERGROUND UTILITY LOCATOR TO LOCATE AND MARK EXISTING UTILITIES WITHIN THE LIMIT OF DISTURBANCE PRIOR TO BEGINNING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ELECTRICAL AND COMMUNICATION LINES, AND ELECTRICAL/COMMUNICATION PEDESTALS THAT CONFLICT WITH EXISTING FEATURES TO REMAIN, AT NO ADDITIONAL COST TO THE PROJECT, AS DIRECTED BY THE ENGINEER. WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, EXCAVATION/TRENCHING, MATERIALS, AND ALL LABOR.
7. PORTIONS OF THIS CONTRACT ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS) DATED AUGUST 2001 INCLUDING ALL REVISIONS UP TO ADVERTISEMENT OF THIS PROJECT, UNLESS NOTED OTHERWISE IN THESE PLANS OR THE SPECIFICATIONS. ITEMS INCLUDING, BUT NOT LIMITED TO, ASPHALT PAVEMENT, REFER TO THE "STANDARD SPECIFICATIONS" FOR MATERIALS AND METHOD OF CONSTRUCTION.
8. ALL EXCAVATION FOR CONSTRUCTION OF THE PROPOSED ROADWAY SHALL BE IN ACCORDANCE WITH SECTION 202 - EXCAVATION AND EMBANKMENT, OF THE DELDOT STANDARD SPECIFICATIONS.
9. TOPSOIL SHALL BE STRIPPED, STOCKPILED, AND STABILIZED IN ACCORDANCE WITH THE DELAWARE EROSION & SEDIMENT CONTROL HANDBOOK, CURRENT EDITION. STOCKPILE TO BE WITHIN WHITE CLAY CREEK STATE PARK AT A LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
10. CLEARING AND GRUBBING IS ASSUMED TO EXTEND A MINIMUM OF SIX (6) INCHES BELOW EXISTING GRADE FOR FOR ALL NEW PAVED AREAS. CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE (LOD) SHALL CONSIST OF CLEARING, GRUBBING, REMOVING AND DISPOSING OF ALL TREES, ROOTS, VEGETATION AND DEBRIS UNLESS OTHERWISE INDICATED, EXCEPT SUCH OBJECT(S) THAT ARE DESIGNATED TO REMAIN.
11. ALL TREE REMOVAL AND TREE TRIMMING WITHIN THE LIMITS OF DISTURBANCE, REGARDLESS OF SIZE, SHALL BE INCIDENTAL TO THE CONTRACT. INDIVIDUAL TREES ARE NOT SHOWN ON THE DRAWINGS BUT MAY BE REMOVED BY THE CONTRACTOR AS NECESSARY WITHIN THE LIMITS OF DISTURBANCE. TREES GREATER THAN 6" IN DIAMETER SHALL BE FLAGGED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO REMOVAL. THE ENGINEER WILL NOT ACCEPT REMOVAL OF TREES INTENDED TO BE PROTECTED.
12. TREES NOT DESIGNATED TO BE REMOVED SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND COMPACTION OF SOIL WITHIN THE DRIP LINE BY MEANS OF 3'-0" HIGH SENSITIVE AREA PROTECTION (SAP) FENCE, AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.
13. ENDS OF THE PROPOSED ROADWAY SHALL BE TRANSITIONED AS NECESSARY TO MEET THE EXISTING GRADES OF THE EXISTING PAVEMENT.
14. CROSS SLOPE OF ALL NEW WALKWAYS SHALL NOT EXCEED A SLOPE OF 1:50. LONGITUDINAL SLOPES OF ALL NEW WALKWAYS SHALL NOT EXCEED 1:20.
15. THE CONTRACTOR MAY STORE AND/OR STOCKPILE EQUIPMENT AND MATERIALS WITHIN THE PROJECT SITE LIMIT OF DISTURBANCE (LOD) SHOWN ON PLAN. REFER TO THE SEDIMENT AND EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.
16. EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF SITE.
17. THE CONTRACTOR IS ADVISED THAT CONTRACTOR EMPLOYEE PARKING SHALL BE LIMITED TO THE EXISTING PAVED PARK PARKING AREAS, UNLESS APPROVED BY THE ENGINEER. VEHICLE PARKING SHALL NOT BE ALLOWED ON UNPAVED AREAS.
18. THE CONTRACTOR IS ADVISED THAT ACTIVE HUNTING WILL TAKE PLACE IN THE PARK BETWEEN SEPTEMBER 1, 2016 AND JANUARY 31, 2017.
19. PARKING LOT 2 SHALL REMAIN OPEN TO PARK/HUNTING USE FROM OCTOBER 10, 2016 THROUGH DECEMBER 3, 2016.
20. INSTALL ONE (1) 5'-0" BY 15'-0" CONCRETE SLAB-ON-GRADE AT PARK SIGNAGE AS DIRECTED BY ENGINEER. LOCATION TO BE DETERMINED IN FIELD. CONCRETE SLAB SHALL BE CONSTRUCTED PER DETAIL 6/C4.1 - PCC SIDEWALK SECTION.

MAINTENANCE OF TRAFFIC NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION TA-3 AND/OR TA-6 OF THE DELAWARE MUTCD.

GENERAL NOTES

1. THE TERM "ENGINEER," "STATE," AND/OR "ARCHITECT" NOTED THROUGHOUT THE CONTRACT PLANS AND SPECIFICATIONS SHALL REFER TO DNREC / STATE PARKS, OR THEIR APPOINTED REPRESENTATIVE. THE TERM "SITE" AND "PARK" MAY BE USED INTERCHANGEABLY THROUGHOUT THESE DOCUMENTS AS A MEANS OF IDENTIFYING WHITE CLAY CREEK STATE PARK.
2. THE CONTRACTOR SHALL PROTECT ALL FEATURES NOT DESIGNATED TO BE REMOVED. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY DNREC, AT NO COST TO THE OWNER.
3. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION SHOWN HEREON AS SHOWN ON THESE PLANS AND SPECIFICATIONS, TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION, AND TO THE SATISFACTION OF DNREC.
4. THE CONTRACTOR SHALL PROVIDE NECESSARY FACILITIES, INCLUDING BUT NOT LIMITED TO RESTROOMS, AND CONSTRUCTION TRAILER DURING CONSTRUCTION. PARK FACILITIES SHALL NOT BE USED.
5. THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS SHOWN ON THE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS.
6. BEFORE EXCAVATION IS STARTED, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. ALL EXISTING UTILITIES SHALL BE PROTECTED AND TEMPORARILY SUPPORTED OR RELOCATED AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE PERTINENT OWNER/UTILITY COMPANY REQUIREMENTS. ANY UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE PROMPTLY AND FULLY RESTORED TO THE SATISFACTION OF THE OWNER.
7. THE CONTRACTOR SHALL DESIGNATE A PERSON WHO SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE EROSION AND SEDIMENT CONTROL PLANS, A PERSON WHO SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE TRAFFIC CONTROL, AND A PERSON WHO SHALL BE RESPONSIBLE FOR WORKER SAFETY. THE PERSON RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE EROSION AND SEDIMENT CONTROL PLANS SHALL BE CERTIFIED BY DNREC FOR EROSION AND SEDIMENT CONTROL RESPONSIBILITY (CERTIFIED CONSTRUCTION REVIEWER).
8. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE AREA WITHIN THE LIMITS OF CONSTRUCTION TO PROHIBIT PUBLIC ACCESS UNTIL COMPLETION OF THE PROJECT. THE CONTRACTOR'S PROCEDURE/METHOD FOR LIMITING ACCESS SHALL BE REVIEWED BY, AND COORDINATED WITH DNREC PRIOR TO THE START OF WORK. THE COST TO INSTALL, RELOCATE, AND MAINTAIN SITE SECURITY SHALL BE INCIDENTAL TO THE CONTRACT.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING OFF-SITE SPOIL AREAS FOR LEGAL DISPOSAL OF EXCESS MATERIAL NOT ACCEPTED BY THE PARK AND/OR UNSUITABLE MATERIALS AS NECESSARY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. ALL COST FOR RECYCLING, TRANSPORTING TO, PROCURING AND UTILIZING THE OFF-SITE SPOIL AREAS ARE TO BE INCIDENTAL TO THE CONTRACT.
10. IN CASE OF CONFLICT BETWEEN THE "MANUFACTURER'S RECOMMENDATIONS" FOR AN APPROVED MATERIAL AND THE GOVERNING "CONTRACT SPECIFICATIONS" FOR THE MATERIAL, THE MORE RESTRICTIVE OF THE TWO SHALL PREVAIL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
11. THE CONSTRUCTION PLANS PRESENT A CONCEPT OF THE RELATIONSHIP BETWEEN TRAFFIC CONTROL, EROSION CONTROL, ETC. ANY REVISION TO THE DETAILS OR SEQUENCE SHOWN ON THE CONSTRUCTION PLANS SHALL BE PREPARED BY THE CONTRACTOR ON STANDARD DNREC PLAN SHEETS AND SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER. THE PLANS SHALL BE PREPARED IN ACCORDANCE WITH CURRENT DNREC STANDARDS FOR TRAFFIC CONTROL, EROSION AND SEDIMENT CONTROL (PREPARED BY A CERTIFIED CONSTRUCTION REVIEWER), STORM WATER MANAGEMENT, ETC. AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE. ALL REQUIRED CALCULATIONS, REPORTS, ETC. SHALL ALSO ACCOMPANY THE SUBMISSION. THE NUMBER OF COPIES REQUIRED TO BE SUBMITTED FOR REVIEW SHALL BE DETERMINED BY DNREC, DEPENDING ON THE NATURE OF THE PROPOSED REVISION. THE CONTRACTOR SHALL NOTE THAT THE REVISIONS TO THE CONSTRUCTION PLANS, AS WELL AS REVIEW TIME BY DNREC, WILL NOT JUSTIFY A DELAY IN THE CONSTRUCTION SCHEDULE. REVISIONS INVOLVING UTILITIES WILL REQUIRE THE COMPLETION OF A UTILITY STATEMENT APPROVED BY THE RESPECTIVE UTILITIES AS PART OF THE PLAN DOCUMENTS. ALL COSTS INVOLVED IN PREPARING THE PLAN REVISIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. THESE DRAWINGS DO NOT INCLUDE NECESSARY ELEMENTS OF CONSTRUCTION SAFETY. ALL CONSTRUCTION, INCLUDING EXCAVATION, MUST BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, CFR §1926.652(b)(2), AND ALL FEDERAL, STATE AND LOCAL REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SITE SAFETY.
13. NO DEBRIS SHALL BE BURIED OR BURNED ON THE SITE UNLESS SPECIFICALLY NOTED WITHIN THESE PLANS OR SPECIFICATIONS.
14. THE CONTRACTOR SHALL CONTACT MISS UTILITY TWO (2) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, OR AS REQUIRED BY LAW, AT 1-800-282-8555.

UTILITIES		
DESCRIPTION	EXISTING	PROPOSED
WATERLINE (CHSP/PRIVATE)	W	N/A
WATER VALVE	WV	N/A
HOSE BIB	HB	YH
SANITARY SEWER (CHSP/PRIVATE)	S	N/A
OVERHEAD ELECTRIC (CITY OF LEWES)	OH	N/A
UNDERGROUND ELECTRIC (BY OTHERS)	E	E
ELECTRIC TRANSFORMER	□	BY OTHERS *
ELECTRIC METER	□	BY OTHERS *
UTILITY POLE	⌘	N/A

SITE		
DESCRIPTION	EXISTING	PROPOSED
WOODEN POST	⊕	N/A
WOODEN FENCE	X	N/A
SIGN	↳	↳
GRAVEL PATH		N/A
TRAVERSE/CONTROL IDENTIFIER	6 Δ 148.27 IP	N/A
TREELINE		N/A
CONTOUR	----- 151 -----	151
TO BE REMOVED	N/A	
VEGETATED FILTER STRIPS	N/A	
CONSTRUCTION SAFETY FENCE	N/A	CSF CSF
LIMITS OF DISTURBANCE	N/A	LOD LOD
LIMITS OF CONSTRUCTION	N/A	LOC LOC
BUILDINGS		
MILL & OVERLAY	N/A	
FULL DEPTH PAVEMENT	N/A	
SAWCUT	N/A	SAW

REFER TO THE EROSION AND SEDIMENT CONTROL PLANS FOR ADDITIONAL LEGEND INFORMATION.

DATA COLUMN

1. COUNTY TAX MAP:	08-035.00-032 08-040.00-054 08-040.00-055 08-041.00-027 08-041.00-028 08-041.00-029 08-041.00-030 08-047.00-097	
2. DNREC PROJECT NUMBER:	-----	
3. ADDRESS OF SITE:	THOMPSON STATION ROAD NEWARK, DE 19711	
4. SITE COORDINATES AT CENTER OF PROJECT SITE: LATITUDE: 39.7154 N LONGITUDE: -75.7409 W		
5. ZONING:	EXISTING: SR-SUBURBAN RESERVE PROPOSED: SR-SUBURBAN RESERVE	
LOT AREA:	TAX PARCEL NO. EXISTING PROPOSED 08-035.00-032 67.89 ACS. 67.89 ACS. 08-040.00-054 52.23 ACS. 52.23 ACS. 08-040.00-055 29.24 ACS. 29.24 ACS. 08-041.00-027 47.83 ACS. 47.83 ACS. 08-041.00-028 91.09 ACS. 91.09 ACS. 08-041.00-029 111.44 ACS. 111.44 ACS. 08-041.00-030 66.61 ACS. 66.61 ACS. 08-047.00-097 50.76 ACS. 50.76 ACS.	
SOURCE OF TITLE:	TAX PARCEL NO. DEED RECORD/INSTRUMENT NUMBER 08-035.00-032 2395-247 08-040.00-054 1388-207 08-040.00-055 2417-34 08-041.00-027 20020814-0078868 08-041.00-028 808-151 08-041.00-029 1388-207 08-041.00-030 808-151 08-047.00-097 2787-245	
6. EXISTING USE:	STATE PARK	
7. PROPOSED USE:	STATE PARK WITH TRAIL PARKING LOT & IMPROVEMENTS	
8. DATUM:	EXISTING VERTICAL - NAVD 88 HORIZONTAL - NAD 83 BENCHMARK: - EXISTING DRAINAGE MANHOLE INTERSECTION THOMPSON STATION ROAD AND NINE FOOT ROAD ELEV. 342.39	
9. SITE CONDITIONS WITHIN LIMITS OF DISTURBANCE (ACRES)	EXISTING CONDITIONS PROPOSED CONDITIONS BUILDING 0.00 ACRES BUILDING 0.00 ACRES PAVEMENT/CONCRETE 0.91 ACRES PAVEMENT/CONCRETE 2.04 ACRES TREES 0.09 ACRES TREES 0.00 ACRES OPEN SPACE 10.88 ACRES OPEN SPACE 9.84 ACRES TOTAL 11.88 ACRES TOTAL 11.88 ACRES IMPERVIOUS CONDITIONS EXISTING 7.7% PROPOSED 17.2%	
10. FLOOD PLAIN MAP	PER FIRM MAP NUMBER 10003C0130K, DATED FEBRUARY 4, 2015, THIS SITE LIES WITHIN ZONE X, AREA DETERMINED TO BE OUTSIDE THE ANNUAL 0.2% CHANCE OF FLOODPLAIN.	
11. WATER RESOURCE PROTECTION	ACCORDING TO THE WATER RESOURCE PROTECTION MAP FOR NEW CASTLE COUNTY, MAP 1 OF 3, DATED 1987, LAST REVISED DECEMBER 2011, THIS SITE DOES NOT LAY WITHIN A RECHARGE WATER RESOURCE PROTECTION AREA.	
12. TOTAL LAND DISTURBANCE	THE TOTAL LAND DISTURBANCE PROPOSED BY THIS PLAN IS 11.88± ACRES (517,493± S.F.)	
13. LIMITS OF CONSTRUCTION	THE TOTAL LIMITS OF CONSTRUCTION FOR THE SITE IS 11.88± ACRES (517,493± S.F.)	
14. WETLANDS	THE TOTAL WETLANDS EXISTING WITHIN THE LIMITS OF DISTURBANCE IS 0.00± ACRES (000± S.F.)	
15. OWNER/DEVELOPER:	STATE OF DELAWARE DNREC, DIVISION OF PARKS & RECREATION 89 KINGS HIGHWAY, DOVER, DE 19901 PHONE: 302-739-9210 FAX: 302-739-9817	
16. REVIEW AGENCY:	DNREC, DIVISION OF WATERSHED STEWARDSHIP 89 KINGS HIGHWAY, DOVER, DE 19901 PHONE: (302) 739-9921 FAX: (302) 739-6724	
17. CIVIL ENGINEER:	CENTURY ENGINEERING, INC. 4134 NORTH DUPONT HIGHWAY, DOVER, DE 19901 ALEX SCHMIDT, P.E. PHONE: (302) 734-9188 FAX: (302) 734-4589	

FIRE MARSHAL NOTES

NAME OF PROJECT:	WHITE CLAY CREEK STATE PARK TRI-VALLEY TRAIL
ADDRESS:	121 SMITH MILL ROAD NEWARK, DE 19711
TAX MAP NUMBER:	08-035.00-032 08-040.00-054 08-040.00-055 08-040.00-056 08-041.00-027 08-041.00-028 08-041.00-029 08-041.00-030 08-047.00-097
OWNER'S NAME AND ADDRESS:	STATE OF DELAWARE DELAWARE STATE PARKS
ENGINEER:	CENTURY ENGINEERING, INC. 4134 N. DUPONT HWY. DOVER, DE 19901
APPLICANT:	WALTER J. HOEY III, P.E. (CENTURY ENGINEERING, INC.)
INTENDED USE OF SITE:	MULTI-USE TRAIL
WATER SUPPLIER:	PRIVATE WELL
NUMBER OF FIRE HYDRANTS:	0
BUILDING USE:	RESTROOM
MAXIMUM HEIGHT OF BUILDING:	9'-10"
BUILDING(S) SIZE:	334 S.F.
PROPOSED BUILDING CONSTRUCTION:	TYPE U (BC) TYPE I (000) (NFPA),
AUTOMATIC SPRINKLER PROTECTION:	NONE
FIRE LANES:	NONE

- NOTES:
1. ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE STATE FIRE PREVENTION REGULATIONS.
2. ALL PROPOSED FIRE HYDRANTS AND WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE DELAWARE STATE FIRE REGULATIONS. (DSFPR REGULATION 702, CHAPTER 6 & 7.
3. FIRE HYDRANTS SHALL BE COLOR CODED IN ACCORDANCE WITH THE DSFPR REGULATION 703, CHAPTER 3, SECTION 4. THIS INCLUDES BOTH COLOR CODING THE BONNET AND 2 INCH REFLECTIVE TAPE AROUND THE BARREL UNDER THE TOP FLANGE.
4. ALL THREADS PROVIDED FOR FIRE DEPARMENT CONNECTIONS, TO SPRINKLER SYSTEMS, STANDPIPES, HARD HYDRANTS OR ANY OTHER FIRE HOSE CONNECTIONS SHALL BE UNIFORM TO THOSE USED BY THE FIRE DEPARTMENT IN WHOSE DISTRICT THEY ARE LOCATED. (DSFPR REGULATION 703, CHAPTER 1, SECTION 1.5)
5. THE STEAMER CONNECTION OF ALL FIRE HYDRANTS SHALL BE SO POSITIONED SO AS TO BE FACING THE STREET OR FIRE LANE. (DSFPR REGULATION 705, CHAPTER 5, SECTION 10)

REVISIONS:

DATE:

DESCRIPTION:

WCCSP TRI-VALLEY TRAIL
CONSTRUCTION PLANS

PROJECT NOTES & LEGEND

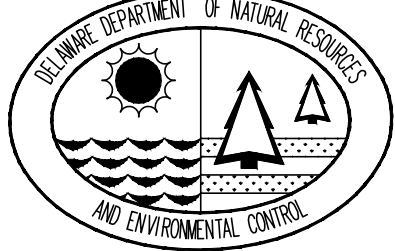
SEAL:



CIVIL ENGINEER:



CEI CONTRACT NO.: 125002.17



DESIGNED BY:

WJH

DRAWN BY:

DLD

CHECKED BY:

SLR

DATE:

NOVEMBER 14, 2016

SCALE:

NONE

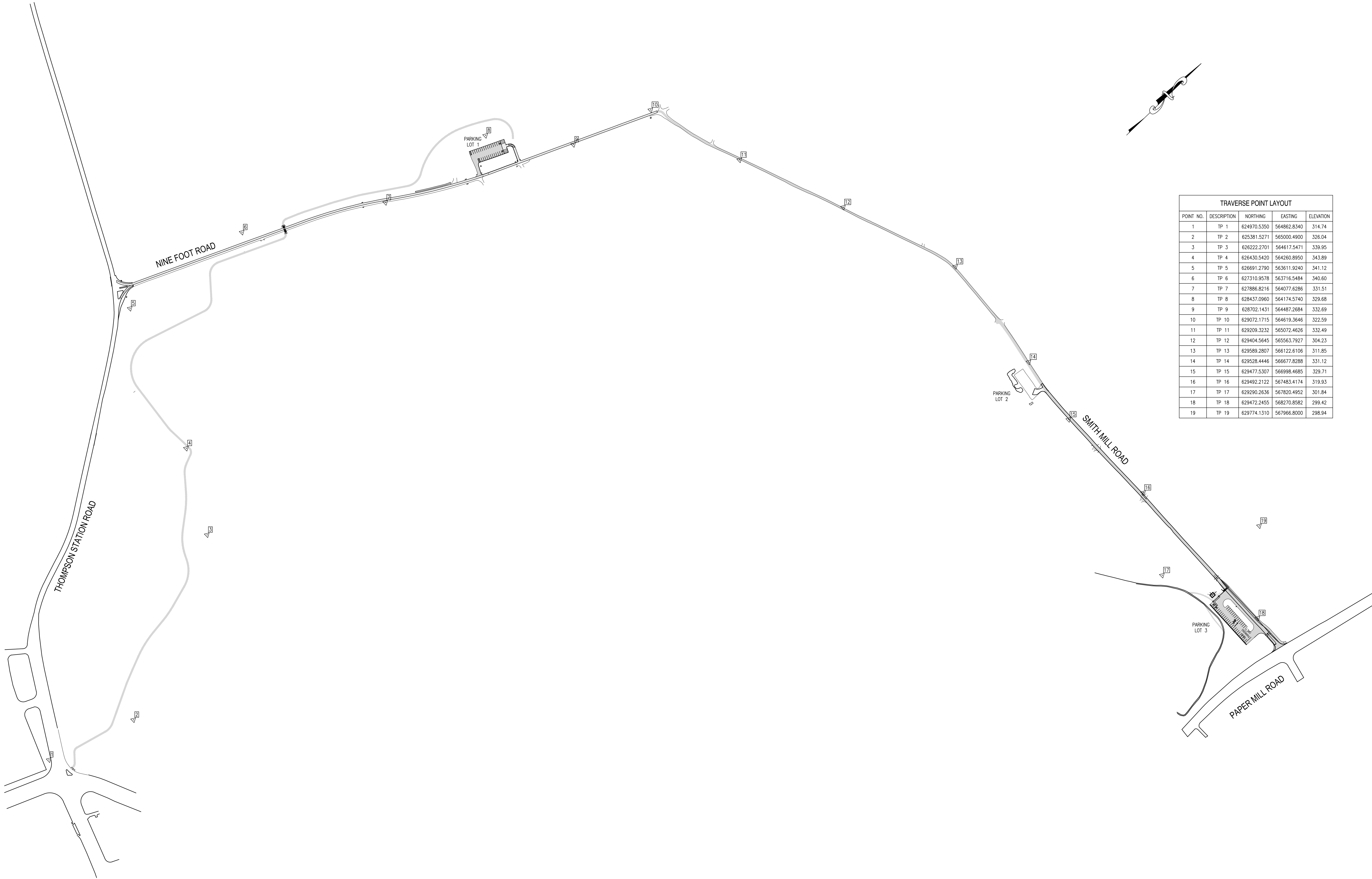
SHEET NO.:

C1.1

CONTRACT NO.:

2016-WCCSP-100

C:\PRODUCTS\25002.02 (WCCSP-01)\25002.02_Tri-Valley Trail Concept_Plan\25002.02_Tri-Valley Trail Concept_Plan\25002.02_Tri-Valley Trail Concept_Plan.dwg, 11/14/2016, 4:16 PM



TRAVERSE POINT LAYOUT				
POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	TP 1	624970.5350	564862.8340	314.74
2	TP 2	625381.5271	565000.4900	326.04
3	TP 3	626222.2701	564617.5471	339.95
4	TP 4	626430.5420	564260.8950	343.89
5	TP 5	626691.2790	563611.9240	341.12
6	TP 6	627310.9578	563716.5484	340.60
7	TP 7	627886.8216	564077.6286	331.51
8	TP 8	628437.0960	564174.5740	329.68
9	TP 9	628702.1431	564487.2684	332.69
10	TP 10	629072.1715	564619.3646	322.59
11	TP 11	629209.3232	565072.4626	332.49
12	TP 12	629404.5645	565563.7927	304.23
13	TP 13	629589.2807	566122.6106	311.85
14	TP 14	629528.4446	566677.8288	331.12
15	TP 15	629477.5307	566998.4685	329.71
16	TP 16	629492.2122	567483.4174	319.93
17	TP 17	629290.2636	567820.4952	301.84
18	TP 18	629472.2455	568270.8582	299.42
19	TP 19	629774.1310	567966.8000	298.94

REVISIONS:

DATE:	DESCRIPTION:	BY:

WCCSP TRI-VALLEY TRAIL
CONSTRUCTION PLANS

SITE CONTROL PLAN

SEAL:

CIVIL ENGINEER:

CENTURY
ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO.: 125002.17

DESIGNED BY:

WJH

DRAWN BY:

DLD

CHECKED BY:

SLR

DATE:

NOVEMBER 14, 2016

SCALE:

NONE

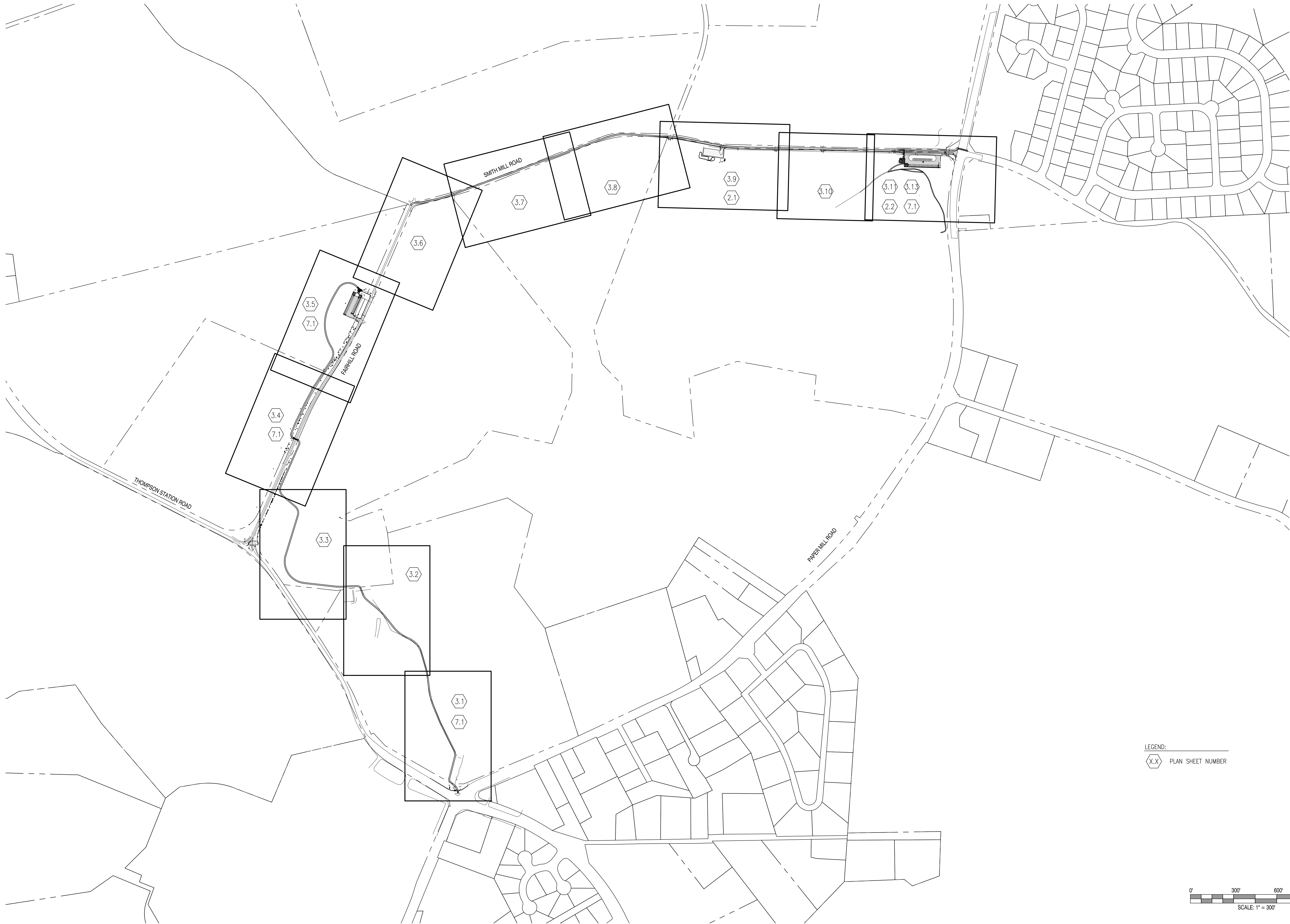
SHEET NO.:

C1.3

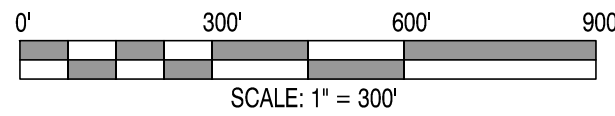
CONTRACT NO.:

2016-WCCSP-100

C:\PROJECTS\125002.02 (WCCSP TRI-Valley Trail Concept Plan)\CADD FILES\Sheet\PlanConstruction\C1 - OverallSheetLayoutPlan.dwg, 11/20/2016 10:24 AM



LEGEND:
X.X PLAN SHEET NUMBER



REVISIONS:

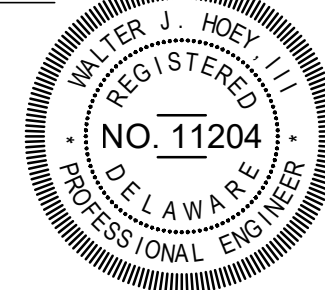
DATE: _____ BY: _____

DESCRIPTION:

WCCSP TRI-VALLEY TRAIL
CONSTRUCTION PLANS

OVERALL SHEET LAYOUT PLAN

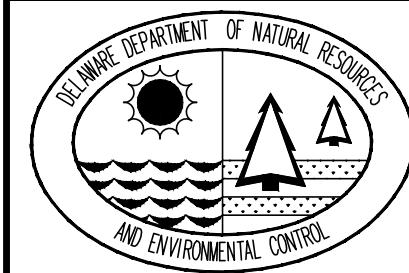
SEAL:



CIVIL ENGINEER:

CENTURY
ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO.: 125002.17



DESIGNED BY:

WJH

DRAWN BY:

DLD

CHECKED BY:

SLR

DATE:

NOVEMBER 14, 2016

SCALE:

1" = 300'

SHEET NO.:

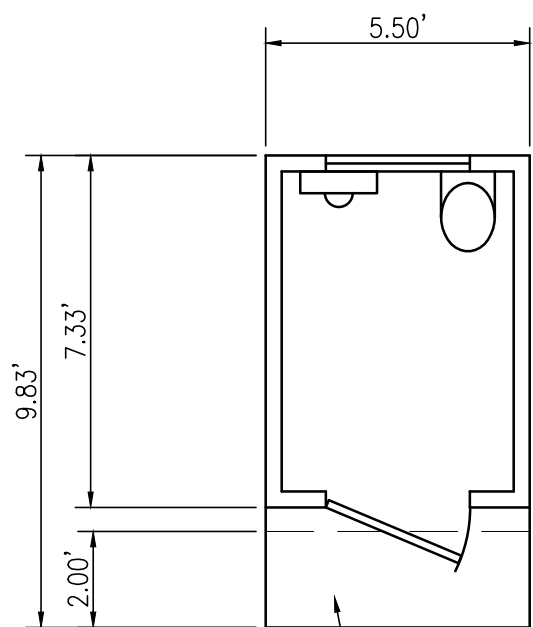
C1.4

CONTRACT NO.:

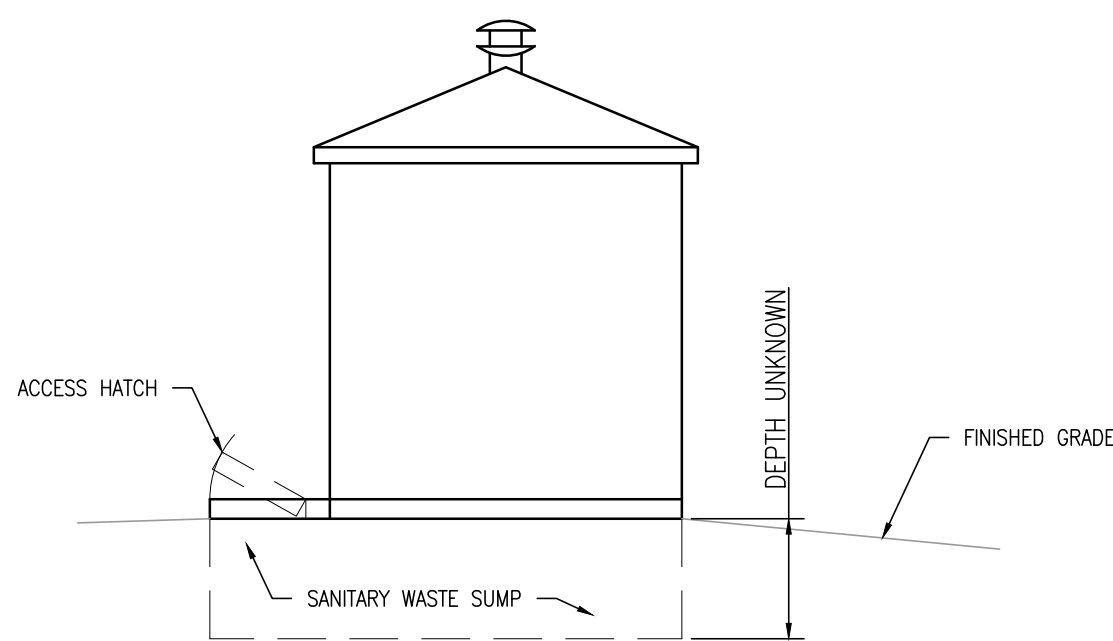
2016-WCCSP-100

T.P. 08-040.00-032
LANDS N.O.F.
STATE OF DELAWARE
c/o SAUL EWING AND SAUL REMICK
D.R. 2395-247
ZONING: SR

T.P. 08-041.00-030
LANDS N.O.F.
STATE OF DELAWARE
DNREC PARKS AND RECREATION
D.R. 808-151
ZONING: SR



PLAN VIEW



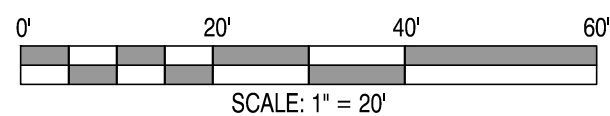
SIDE ELEVATION

1
C1.5 FIBERGLASS SELF-CONTAINED RESTROOM DETAILS
SCALE: 1/4" = 1'-0"

SMITH MILL ROAD

NOTES: (X)

- PARCEL LINES TAKEN FROM GIS INFORMATION.
- REMOVE EXISTING FIBERGLASS, SELF-CONTAINED RESTROOM, SEE DETAIL THIS SHEET. WORK TO INCLUDE:
 - PUMPING ALL SEWAGE FROM SUMP.
 - DISPOSING OF ALL SEWAGE IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS AND REGULATIONS.
 - SANITARY STEAM CLEANING OF EXISTING FACILITY, INCLUDING SUMP.
 - TRANSPORTING RESTROOM TO DNREC PARKS (LOCATION TO BE DETERMINED).
 - BACKFILLING ALL EXCAVATED AREAS WITH TYPE F BORROW TO WITHIN SIX (6) INCHES OF FINAL GRADE.
 - BACKFILLING AND GRADING EXCAVATED AREA WITH SIX (6) INCHES OF TOPSOIL.
 - SEEDING AND MULCHING AREA IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DETAILS.
- REMOVE AND DISPOSE OF EXISTING TIMBER SPLIT-RAIL FENCE.
- REMOVE EXISTING GRAVEL PARKING LOT. WORK TO INCLUDE:
 - REMOVAL, SALVAGE, AND DELIVERY OF CONCRETE PARKING BLOCKS TO DNREC PARKS.
 - REMOVAL, SALVAGE, AND DELIVERY OF ALL SIGNAGE AND INFORMATION STRUCTURES TO DNREC PARKS.
 - REMOVAL AND SALVAGE OF STEEL GATE, GATE POSTS, AND RECEIVING POSTS TO BE INSTALLED AT LOT 3. (SEE SHEET C3.13.)
 - EXCAVATING GRAVEL TO A MINIMUM DEPTH OF SIX (6) INCHES BELOW EXISTING GRADE. EXCAVATED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND LEGALLY DISPOSED OF OFF SITE.
 - BACKFILLING AND GRADING LOT WITH SIX (6) INCHES OF TOPSOIL. GRADE TO DRAIN WITH NO LOW SPOTS.
 - SEEDING AND MULCHING LOT IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DETAILS.
- CLEAR AND GRUB TREES, BRUSH, ETC. ON SOUTH AND WEST SIDE OF PARKING LOT. BACKFILL ALL DEPRESSIONS WITH CLEAN TOPSOIL, FINE GRADE TO MATCH SURROUNDING TERRAIN, SEED AND MULCH WITH PERMANENT SEEDING, DRY GROUND AND STRAW MULCH. OWNER TO REMOVE JUNE BERRY TREES TO BE SALVAGED PRIOR TO CONTRACTOR PERFORMING DEMOLITION WORK AT LOT 2.



REVISIONS:

DATE: DESCRIPTION:

BY:

WCCSP TRI-VALLEY TRAIL
CONSTRUCTION PLANS

DEMOLITION PLAN - PARKING LOT 2

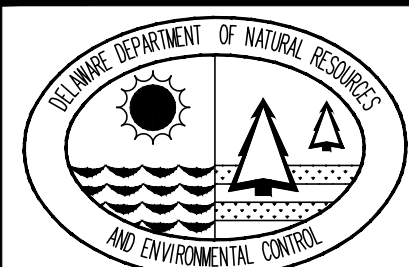
SEAL:



CIVIL ENGINEER:

CENTURY
ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO.: 125002.17



DESIGNED BY:

WJH

DRAWN BY:

DLD

CHECKED BY:

SLR

DATE:

NOVEMBER 14, 2016

SCALE:

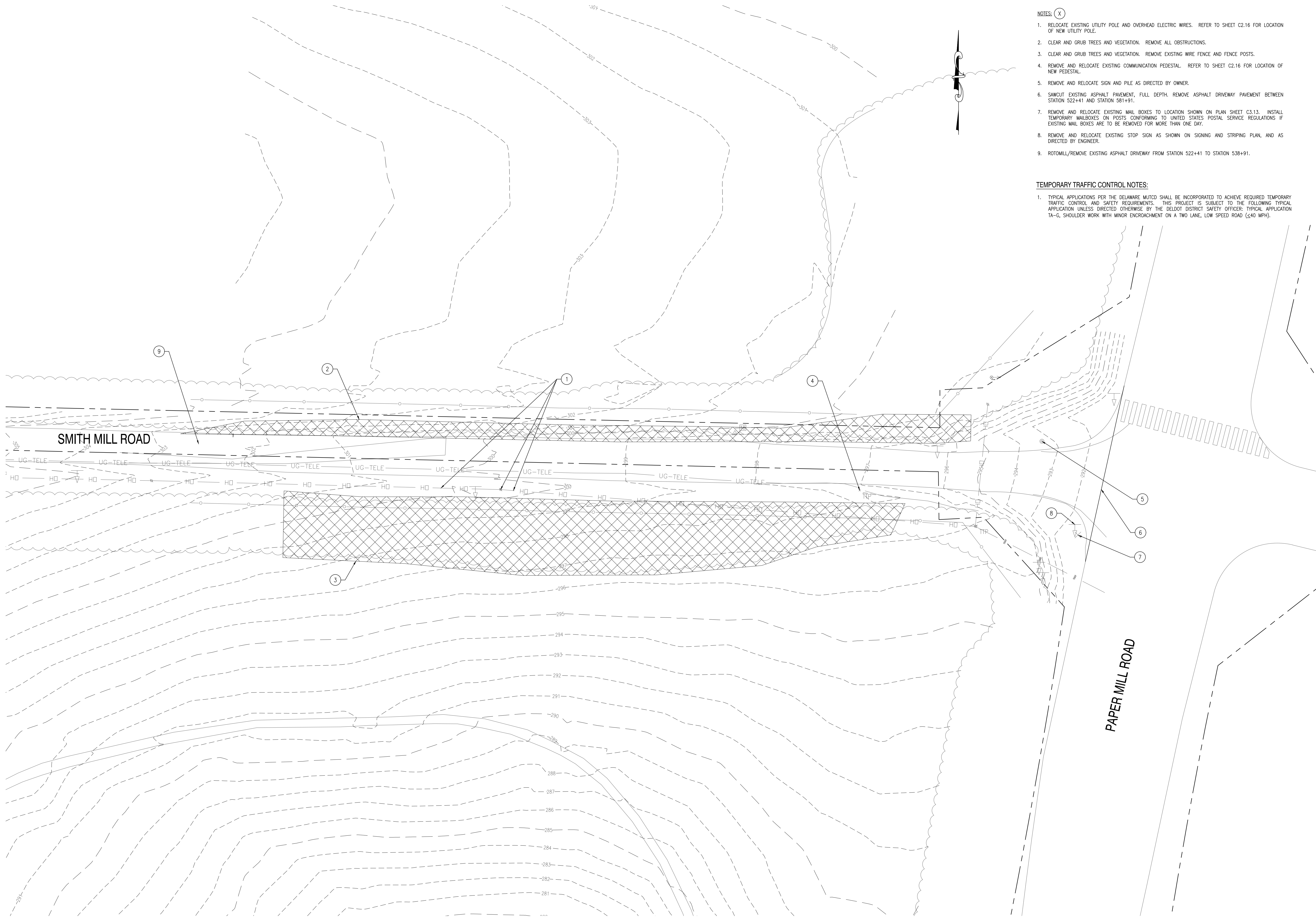
1" = 20'

SHEET NO.:

C2.1

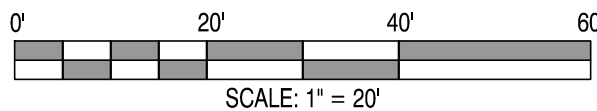
CONTRACT NO.:

2016-WCCSP-100



- NOTES: (X)
1. RELOCATE EXISTING UTILITY POLE AND OVERHEAD ELECTRIC WIRES. REFER TO SHEET C2.16 FOR LOCATION OF NEW UTILITY POLE.
 2. CLEAR AND GRUB TREES AND VEGETATION. REMOVE ALL OBSTRUCTIONS.
 3. CLEAR AND GRUB TREES AND VEGETATION. REMOVE EXISTING WIRE FENCE AND FENCE POSTS.
 4. REMOVE AND RELOCATE EXISTING COMMUNICATION PEDESTAL. REFER TO SHEET C2.16 FOR LOCATION OF NEW PEDESTAL.
 5. REMOVE AND RELOCATE SIGN AND PILE AS DIRECTED BY OWNER.
 6. SAWCUT EXISTING ASPHALT PAVEMENT, FULL DEPTH. REMOVE ASPHALT DRIVEWAY PAVEMENT BETWEEN STATION 522+41 AND STATION 581+91.
 7. REMOVE AND RELOCATE EXISTING MAIL BOXES TO LOCATION SHOWN ON PLAN SHEET C3.13. INSTALL TEMPORARY MAILBOXES ON POSTS CONFORMING TO UNITED STATES POSTAL SERVICE REGULATIONS IF EXISTING MAIL BOXES ARE TO BE REMOVED FOR MORE THAN ONE DAY.
 8. REMOVE AND RELOCATE EXISTING STOP SIGN AS SHOWN ON SIGNING AND STRIPING PLAN, AND AS DIRECTED BY ENGINEER.
 9. ROTOMILL/REMOVE EXISTING ASPHALT DRIVEWAY FROM STATION 522+41 TO STATION 538+91.

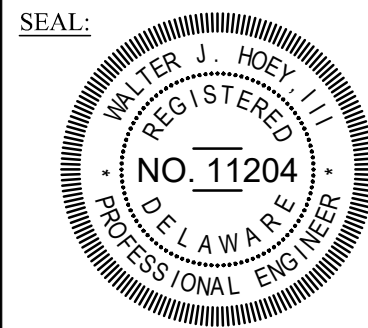
- TEMPORARY TRAFFIC CONTROL NOTES:
1. TYPICAL APPLICATIONS PER THE DELAWARE MUTCD SHALL BE INCORPORATED TO ACHIEVE REQUIRED TEMPORARY TRAFFIC CONTROL AND SAFETY REQUIREMENTS. THIS PROJECT IS SUBJECT TO THE FOLLOWING TYPICAL APPLICATION UNLESS DIRECTED OTHERWISE BY THE DELDOT DISTRICT SAFETY OFFICER: TYPICAL APPLICATION TA-G, SHOULDER WORK WITH MINOR ENCRoACHMENT ON A TWO LANE, LOW SPEED ROAD (≤40 MPH).



REVISIONS:

DATE: DESCRIPTION: BY:

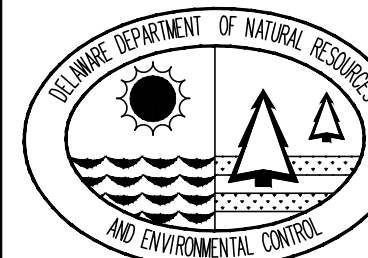
WCCSP TRI-VALLEY TRAIL
CONSTRUCTION PLANS
DEMOLITION PLAN - PARKING LOT 3



CIVIL ENGINEER:

CENTURY
ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO.: 125002.17



DESIGNED BY:
WJH

DRAWN BY:
DLD

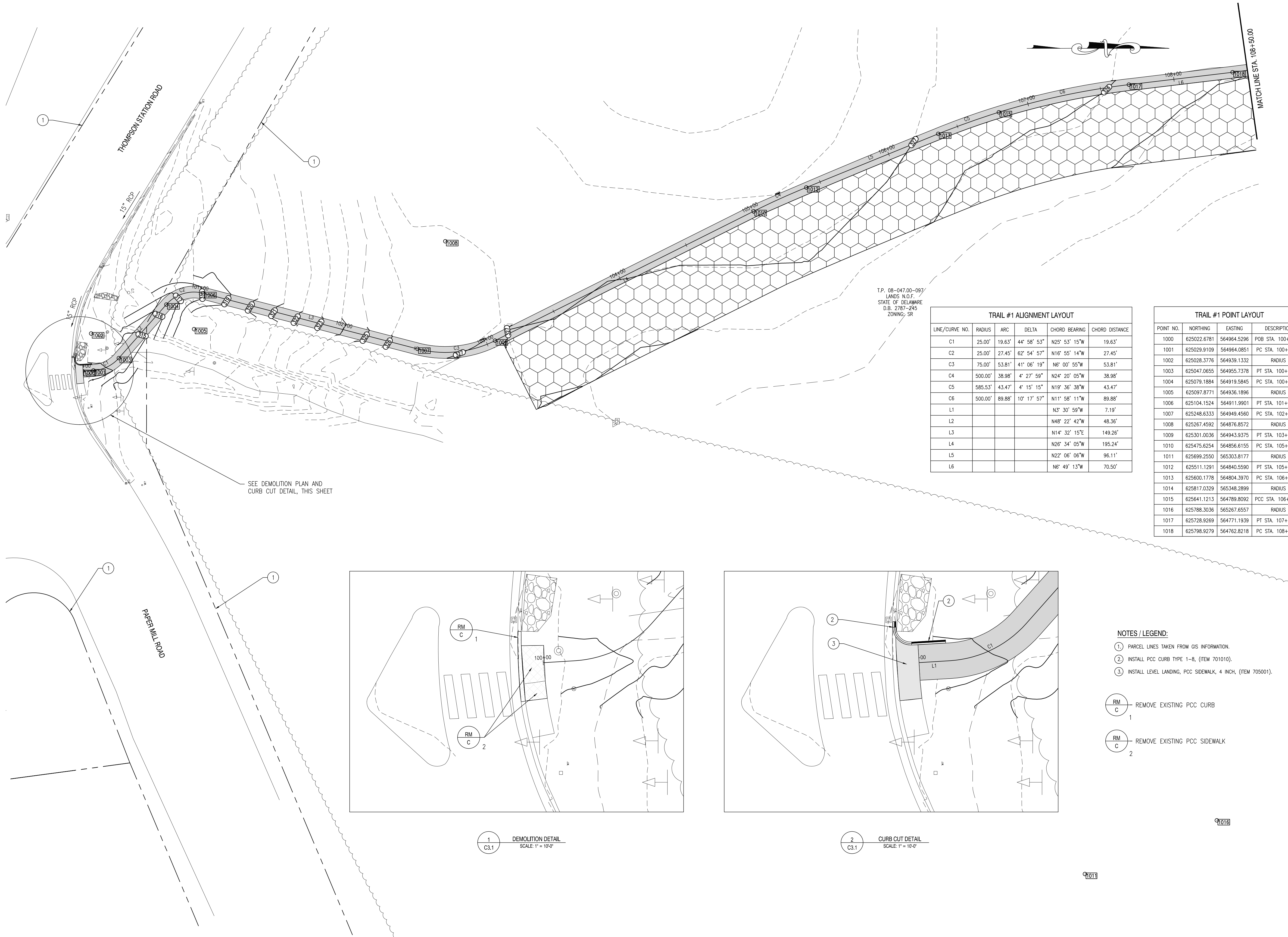
CHECKED BY:
SLR

DATE:
NOVEMBER 14, 2016

SCALE:
1" = 20'

SHEET NO.:
C2.2

CONTRACT NO.:
2016-WCCSP-100

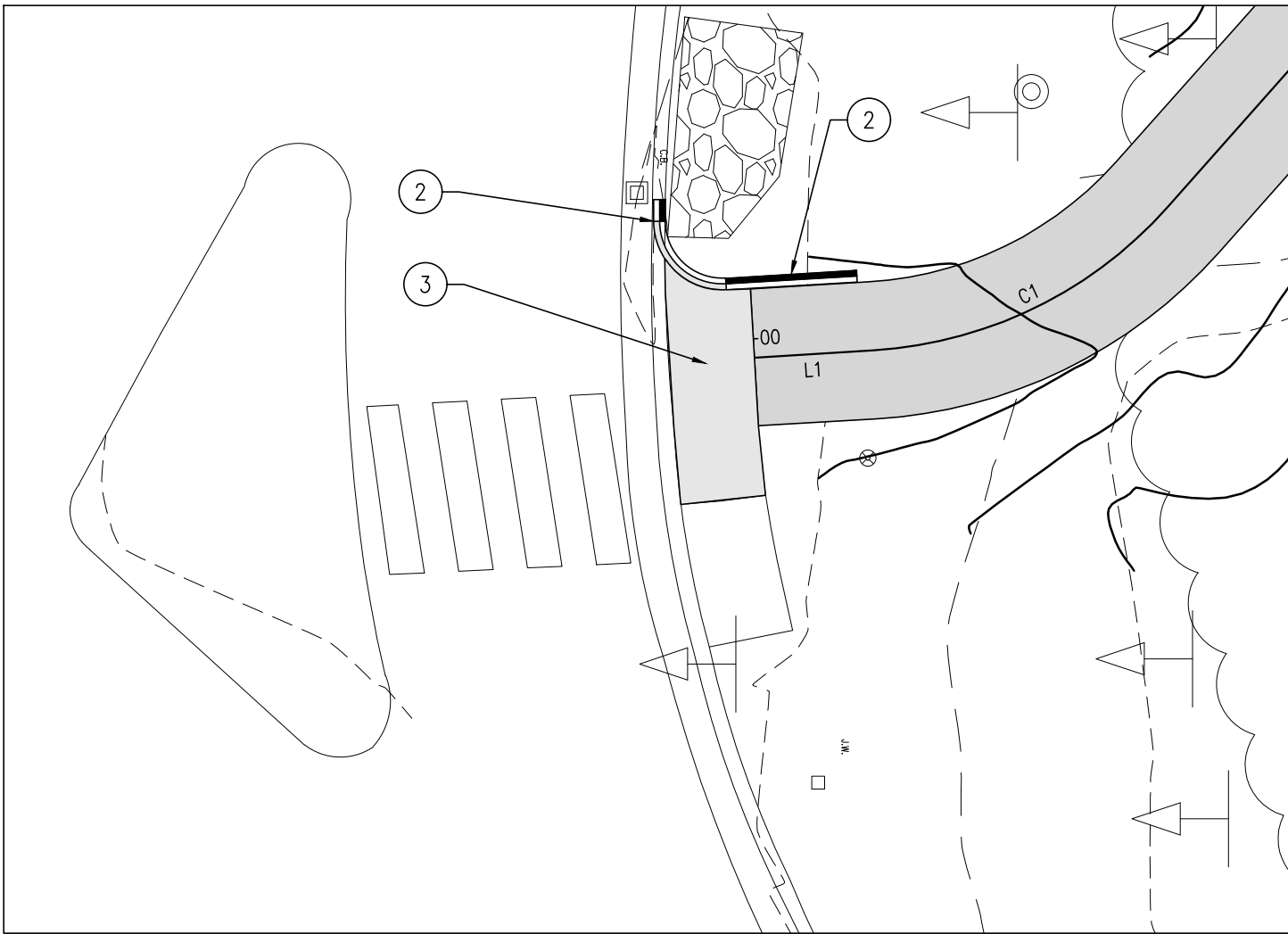
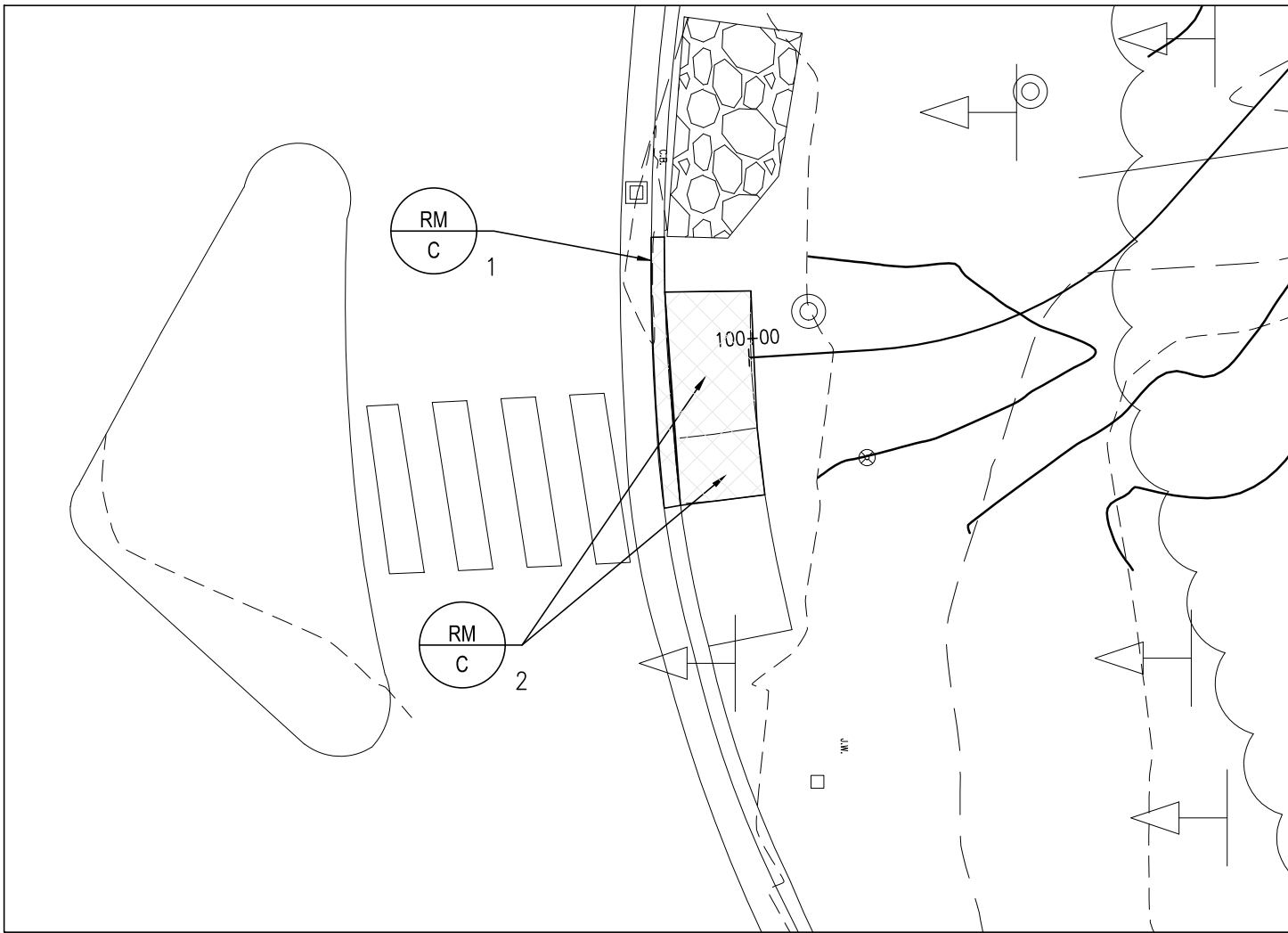


T.P. 08-047.00-097
LANDS N.O.T.
STATE OF DELAWARE
D.B. 2787-245
ZONING: SR

TRAIL #1 ALIGNMENT LAYOUT					
LINE/CURVE NO.	RADIUS	ARC	DELTA	CHORD BEARING	CHORD DISTANCE
C1	25.00'	19.63'	44° 58' 53"	N25° 53' 15"W	19.63'
C2	25.00'	27.45'	62° 54' 57"	N16° 55' 14"W	27.45'
C3	75.00'	53.81'	41° 06' 19"	N6° 00' 55"W	53.81'
C4	500.00'	38.98'	4° 27' 59"	N24° 20' 05"W	38.98'
C5	585.53'	43.47'	4° 15' 15"	N19° 36' 38"W	43.47'
C6	500.00'	89.88'	10° 17' 57"	N11° 58' 11"W	89.88'
L1				N3° 30' 59"W	7.19'
L2				N48° 22' 42"W	48.36'
L3				N14° 32' 15"E	149.26'
L4				N26° 34' 05"W	195.24'
L5				N22° 06' 06"W	96.11'
L6				N6° 49' 13"W	70.50'

TRAIL #1 POINT LAYOUT			
POINT NO.	NORTHING	EASTING	DESCRIPTION
1000	625022.6781	564964.5296	POB STA. 100+00.00
1001	625029.9109	564964.0851	PC STA. 100+07.25
1002	625028.3776	564939.1332	RADIUS
1003	625047.0655	564955.7378	PT STA. 100+26.82
1004	625079.1884	564819.5845	PC STA. 100+75.18
1005	625097.8771	564936.1896	RADIUS
1006	625104.1524	564911.9901	PT STA. 101+02.64
1007	625248.6333	564949.4560	PC STA. 102+51.90
1008	625267.4592	564876.8572	RADIUS
1009	625301.0036	564943.9375	PT STA. 103+05.70
1010	625475.6254	564856.6155	PC STA. 105+00.94
1011	625699.2550	565303.8177	RADIUS
1012	626511.1291	564840.5590	PT STA. 105+39.92
1013	625600.1778	564804.3970	PC STA. 106+36.03
1014	625817.0329	565348.2899	RADIUS
1015	625641.1213	564789.8092	PCC STA. 106+79.50
1016	625788.3036	565267.6557	RADIUS
1017	625728.9269	564771.1939	PT STA. 107+69.38
1018	625798.9279	564762.8218	PC STA. 108+39.88

SEE DEMOLITION PLAN AND
CURB CUT DETAIL, THIS SHEET

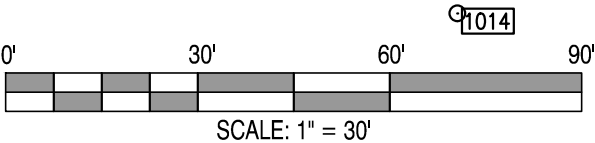
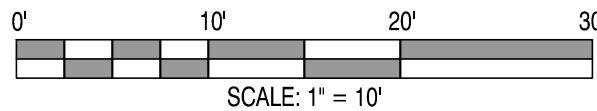


NOTES / LEGEND:

- ① PARCEL LINES TAKEN FROM GIS INFORMATION.
② INSTALL PCC CURB TYPE 1-8, (ITEM 701010).
③ INSTALL LEVEL LANDING, PCC SIDEWALK, 4 INCH, (ITEM 705001).

RM
C
1 REMOVE EXISTING PCC CURB

RM
C
2 REMOVE EXISTING PCC SIDEWALK



REVISIONS:

DATE: DESCRIPTION: BY:

WCCSP TRI-VALLEY TRAIL
CONSTRUCTION PLANS
SITE ALIGNMENT & SITE GRADING PLAN

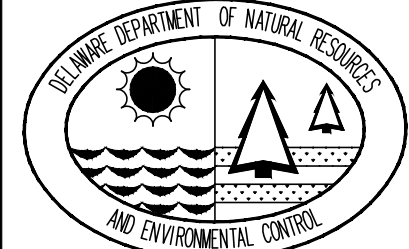
SEAL:



CIVIL ENGINEER:

CENTURY
ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO.: 125002.17



DESIGNED BY:

WJH

DRAWN BY:

DLD

CHECKED BY:

SLR

DATE:

NOVEMBER 14, 2016

SCALE:

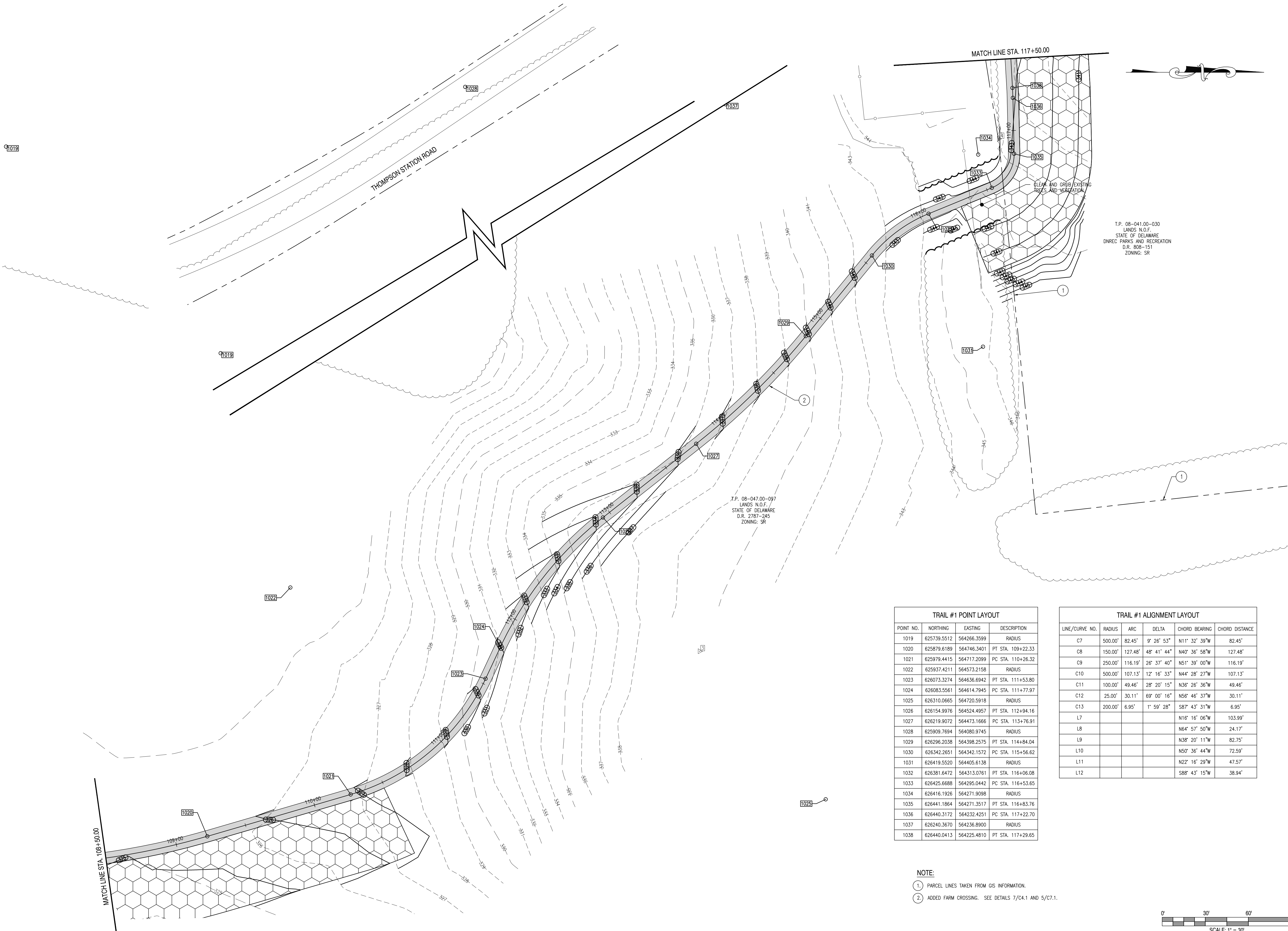
1" = 30'

SHEET NO.:

C3.1

CONTRACT NO.:

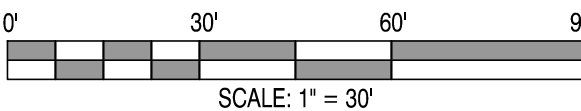
2016-WCCSP-100



TRAIL #1 POINT LAYOUT			
POINT NO.	NORTHING	EASTING	DESCRIPTION
1019	625739.5512	564266.3599	RADIUS
1020	625879.6189	564746.3401	PT STA. 109+22.33
1021	625979.4415	564717.2099	PC STA. 110+26.32
1022	625937.4211	564573.2158	RADIUS
1023	626073.3274	564636.6942	PT STA. 111+53.80
1024	626083.5561	564614.7945	PC STA. 111+77.97
1025	626310.0665	564720.5918	RADIUS
1026	626154.9976	564524.4957	PT STA. 112+94.16
1027	626219.9072	564473.1666	PC STA. 113+76.91
1028	625909.7694	564080.9745	RADIUS
1029	626296.2038	564398.2575	PT STA. 114+84.04
1030	626342.2651	564342.1572	PC STA. 115+56.62
1031	626419.5520	564405.6138	RADIUS
1032	626381.6472	564313.0761	PT STA. 116+06.08
1033	626425.6688	564295.0442	PC STA. 116+53.65
1034	626416.1926	564271.9098	RADIUS
1035	626441.1864	564271.3517	PT STA. 116+83.76
1036	626440.3172	564232.4251	PC STA. 117+22.70
1037	626240.3670	564236.8900	RADIUS
1038	626440.0413	564225.4810	PT STA. 117+29.65

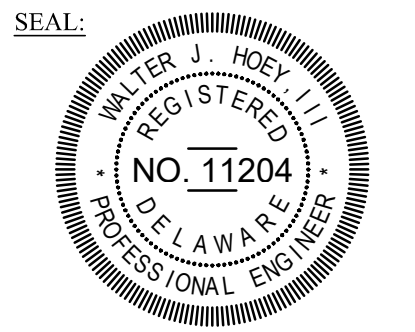
TRAIL #1 ALIGNMENT LAYOUT					
LINE/CURVE NO.	RADIUS	ARC	DELTA	CHORD BEARING	CHORD DISTANCE
C7	500.00'	82.45'	9° 26' 53"	N11° 32' 39"W	82.45'
C8	150.00'	127.48'	48° 41' 44"	N40° 36' 58"W	127.48'
C9	250.00'	116.19'	26° 37' 40"	N51° 39' 00"W	116.19'
C10	500.00'	107.13'	12° 16' 33"	N44° 28' 27"W	107.13'
C11	100.00'	49.46'	28° 20' 15"	N36° 26' 36"W	49.46'
C12	25.00'	30.11'	69° 00' 16"	N56° 46' 37"W	30.11'
C13	200.00'	6.95'	1° 59' 28"	S87° 43' 31"W	6.95'
L7				N16° 16' 06"W	103.99'
L8				N64° 57' 50"W	24.17'
L9				N38° 20' 11"W	82.75'
L10				N50° 36' 44"W	72.59'
L11				N22° 16' 29"W	47.57'
L12				S88° 43' 15"W	38.94'

NOTE:
1. PARCEL LINES TAKEN FROM GIS INFORMATION.
2. ADDED FARM CROSSING. SEE DETAILS 7/C4.1 AND 5/C7.1.



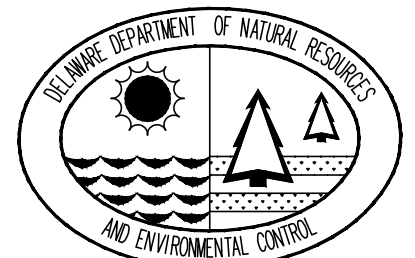
REVISIONS:		DATE:	DESCRIPTION:	BY:

WCCSP TRI-VALLEY TRAIL CONSTRUCTION PLANS SITE ALIGNMENT & SITE GRADING PLAN



CENTURY
ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO.: 125002.17



DESIGNED BY:
WJH

DRAWN BY:
DLD

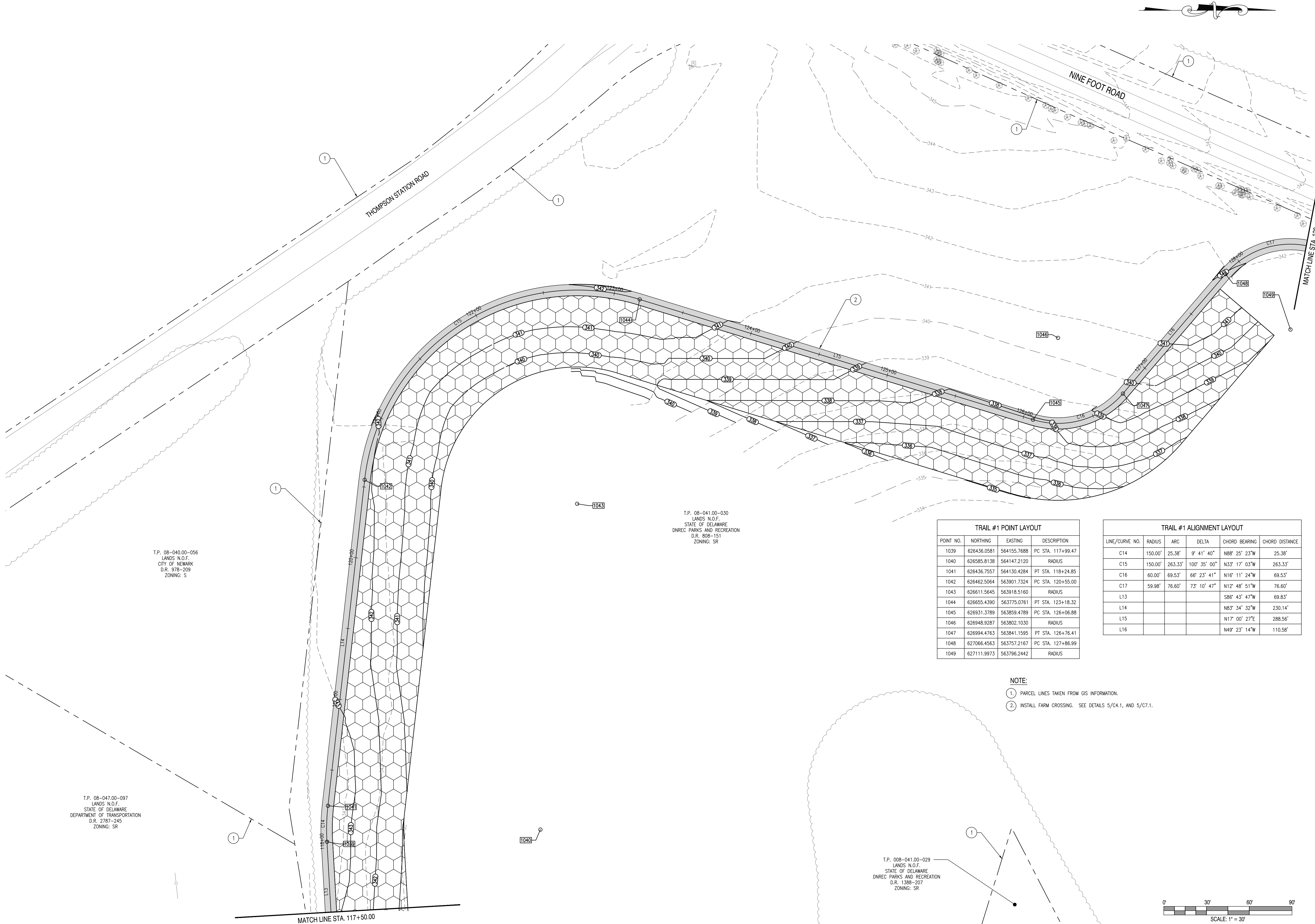
CHECKED BY:
SLR

DATE:
NOVEMBER 14, 2016

SCALE:
1" = 30'

SHEET NO.:
C3.2

CONTRACT NO.:
2016-WCCSP-100



T.P. 08-040.00-056
LANDS N.O.F.
CITY OF NEWARK
D.R. 878-209
ZONING: S

T.P. 08-047.00-097
LANDS N.O.F.
STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
D.R. 2787-245
ZONING: SR

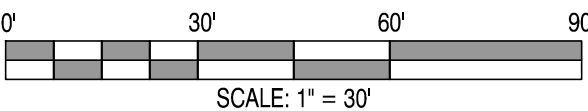
T.P. 08-041.00-030
LANDS N.O.F.
STATE OF DELAWARE
DNREC PARKS AND RECREATION
D.R. 808-151
ZONING: SR

T.P. 008-041.00-029
LANDS N.O.F.
STATE OF DELAWARE
DNREC PARKS AND RECREATION
D.R. 1388-207
ZONING: SR

TRAIL #1 POINT LAYOUT			
POINT NO.	NORTHING	EASTING	DESCRIPTION
1039	626436.0581	564155.7688	PC STA. 117+99.47
1040	626585.8138	564147.2120	RADIUS
1041	626436.7557	564130.4284	PT STA. 118+24.85
1042	626462.5064	563901.7324	PC STA. 120+55.00
1043	626611.5645	563918.5160	RADIUS
1044	626655.4390	563775.0761	PT STA. 123+18.32
1045	626931.3789	563859.4789	PC STA. 126+06.88
1046	626948.9287	563802.1030	RADIUS
1047	626994.4763	563841.1595	PT STA. 128+76.41
1048	627066.4563	563757.2167	PC STA. 127+86.99
1049	627111.9973	563796.2442	RADIUS

TRAIL #1 ALIGNMENT LAYOUT					
LINE/CURVE NO.	RADIUS	ARC	DELTA	CHORD BEARING	CHORD DISTANCE
C14	150.00'	25.38'	9° 41' 40"	N88° 25' 23"W	25.38'
C15	150.00'	263.33'	100° 35' 00"	N33° 17' 03"W	263.33'
C16	60.00'	69.53'	66° 23' 41"	N16° 11' 24"W	69.53'
C17	59.98'	76.60'	73° 10' 47"	N12° 48' 51"W	76.60'
L13				S86° 43' 47"W	69.83'
L14				N83° 34' 32"W	230.14'
L15				N17° 00' 27"E	288.56'
L16				N49° 23' 14"W	110.58'

- NOTE:
- 1. PARCEL LINES TAKEN FROM GIS INFORMATION.
 - 2. INSTALL FARM CROSSING. SEE DETAILS 5/C4.1, AND 5/C7.1.



REVISIONS:

DATE: DESCRIPTION:

BY:

WCCSP TRI-VALLEY TRAIL
CONSTRUCTION PLANS
SITE ALIGNMENT & SITE GRADING PLAN

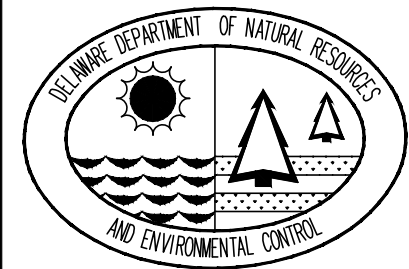
SEAL:



CIVIL ENGINEER:

CENTURY
ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO.: 125002.17



DESIGNED BY:

WJH

DRAWN BY:

DLD

CHECKED BY:

SLR

DATE:

NOVEMBER 14, 2016

SCALE:

1" = 30'

SHEET NO.:

C3.3

CONTRACT NO.:

2016-WCCSP-100